PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES INSTALLING PEDESTRIAN FACILITIES FOR THE SOUTH, EAST, AND WEST LEGS OF THE INTERSECTION, PEDESTRIAN SIGNAL HEADS AND SIGNS WILL BE INSTALLED FOR THE EAST AND WEST LEGS. THE EAST AND WEST LEG PEDESTRIAN CROSSINGS WILL RUN CONCURRENT WITH THE THROUGH MOVEMENTS ON MD 202. PEDESTRIAN SIGNAL HEADS, PUSH BUTTONS AND SIGNS WILL BE INSTALLED FOR THE SOUTH LEG. AN ALTERNATIVE PHASE WILL BE PROVIDED FOR THE SOUTH LEG PEDESTRIAN CROSSING. AS A RESULT OF GEOMETRIC MODIFICATIONS TO ALL OF THE EXISTING CHANNELIZATION ISLANDS, VIDEO DETECTION WILL REPLACE PRESENCE DETECTION FOR NORTHBOUND LEFT TURNS AND THE EASTBOUND MOVEMENT. MD 202 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION OPERATES IN A NEMA SEVEN-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH EXCLUSIVE LEFT-TURN PHASING FOR NORTH- AND SOUTHBOUND TRAFFIC. SIDE STREET SPLIT PHASING WILL REMAIN. AN ALTERNATIVE PEDESTRIAN PHASE IS PROVIDED ACROSS THE SOUTH LEG OF MD 202. THE SIGNAL IS INTERCONNECTED TO ADJACENT SIGNALS TO THE NORTH, SOUTH, AND EAST OF THE INTERSECTION.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CONTROLLER, LOOP DETECTOR AMPLIFIERS, AND ASSOCIATED HARNESSES WILL REMAIN. THE SHA SIGNAL SHOP WILL INSTALL THE NEW VIDEO INTERFACE WITHIN THE EXISTING

Mr. Majib Shakib Assistant District Engineer - Traffic Phone: 301-513-7358

Mr. Augie Rebish Assistant District Engineer - Utility Phone: 301-513-7350

Mr. Wayne Mowdy Assistant District Engineer - Maintenance Phone: 301-513-7304

THE CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS:

Mr. Richard L. Daff Sr. Chief, Traffic Operations Division Phone: 410-787-7630

The Power Company Representative is: Potomac Electric Power Company Eliza Hemingway 4061 Powder Mill Road Suite 600 Calverton, Maryland 20705 Phone: 301-931-2880

845392-9409 WIRING DIAGRAM A,B,C,D,E, F,G,H,J,K, — L,M,N,O,P F,G,H,J,K, L,M,N,O,P A,B,C,D, E,F,K,O,F A,B,C,D,E,F,Q C,D,E,F ** SPLICE EXISTING LOOP WIRE TO NEW 2-CONDUCTOR (ALUMINUM SHIELDED) ELECTRICAL CABLES

- 							P	HAS	E C	HAF	RT										
		2	3	4	5	6	7	8	9	10		12	13	14	15	16	17	18	19	20	
	######################################		(R) (V) (B) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	R Y B			(R) (Y) (q)	P Y B	R Y G G	(B) (B) (A)	R Y G	R Y a @	R > 0 &	(A) (Y) (B)	¥ X	¥ À	V h	V	¥	₩ λ	
PHASE I + 5	-4 6	-4 6-	R	R	+6	- -G	R	R	R ·	R	R	R	R	R	DW	DW	DW	DW	DW	DW	
PHASE + 5 CHANGE		THE CONTROLLER MAY SKIP TO PHASE ! + 6, 2 + 5 OR 2 + 6																			
PHASE + 6	- G	∢ 6	G	G	≈ R	≪R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	
PHASE I + 6 CHANGE	 Y-	⊸ Y	Y	Y	▼R	◄ R-	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	_ '
PHASE 2 + 5	≠R	≉R	R	R	 G	- G -	G	G	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	
PHASE 2 + 5 CHANGE	▼R	∢R	R	R	→ Y	◄ Y	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	†
PHASE 2 + 6	⊸R	◄R	G	G		R	G	G	R	R	R	R	R	R	W	W	W	W	DW	DW	•
PEDESTRIAN CLEARANCE	≉R	▼R	G	G	R -	≪ R	G	G	R	R	R	R	R	R	F/DW	F/DW	F/DW	F/DW	DW	DW	
PHASE 2 + 6 CHANGE	≈R	→R	Υ	Υ	▼R	 R-	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	•
PHASE 3		∢R	R	R	▼R -		R	R	G G	G 4 G	G	R	R	R	DW	DW	DW	DW	DW	DW	
PHASE 3 CHANGE	→R	▼R	R	R	∢R	■R	R	R	Υ	Y	Y	R	R	R	DW	DW	DW	DW	DW	DW	1
PHASE 4	⊲R	R -	R	R	∢R	∢R	R	R	R	R	R	G 4-G	G G	G	DW	DW	DW	DW	DW	D₩	
PHASE 4 CHANGE	→ R	- R−	R	R	 R	∢R	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW	DW	DW	1
PHASE 4 ALT	→R	≺R	R	R		→ R	R	R	R	R	R	G G	G G	G	DW	DW	DW	DW	W	W	
PED CLEARANCE	∢R	∢R	R	R	■ R		R	R	R	R	R	G	G_6	G	DW	DW	DW	DW	F/DW	F/DW	1 4
PHASE 4 ALT CHANGE	■R	-R	R	R	∢R	■ R -	R	R	R	R	R	Y	Y	Υ	DW	DW	DW	DW	DW	DW	
FLASHING OPERATION	FL/RA	FL/RA	FL/Y	FL/Y	FL/RA	FL/RA	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK	

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

QUANTITY

<u>ITEM NO</u>

9086	I EA	EUPDATED] VIDEO DETECTION INTERFACE EQUIPMENT: I-4 CAMERAS
9570	49 SF	[UPDATED] SHEET ALUMINUM GROUND MOUNTED SIGN:
		4 EACH - WII-2 (30 IN. X 30 IN.) (FLOURESCENT YELLOW)
		4 EACH - WI3-4 (36 IN. X 24 IN.) (FLOURESCENT YELLOW)

DESCRIPTION

_2-CONDUCTOR ELECTRICAL CABLE (ALUMINUM SHIELDED)

G - CONTROL CABLE, 200 FOOT, VIDEO DETECTION H-CONTROL CABLE, 300 FOOT, VIDEO DETECTION

J -2-CONDUCTOR ELECTRICAL CABLE (NO.14 AWG)

L-2-CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG) TC

-5-CONDUCTOR ELECTRICAL CABLE (NO.14 AWG)

Q -NO. 6 AWG STRANDED BARE COPPER WIRE

+-3/4 IN. × IO FT. GROUND ROD

EPS -EXISTING POWER SOURCE

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

TEM NO	QLIANTITY	DESCRIPTION
1001	2 EA	MAINTENANCE OF TRAFFIC
5003	240 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH
5005	1000 1680- LF	12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
5006	100 LF	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
8002	12 EA	12 INCH PEDESTRIAN SIGNAL HEAD SECTION
8008	LEA	CONTROL CABLE, 200 FOOT, VIDEO DETECTION
8009	I EA	CONTROL CABLE, 300 FOOT, VIDEO DETECTION
8019	I EA	REMOVE AND DISPOSE OF MATERIALS AND EQUIPMENT PER ASSIGNMENT
8028	72 LF	WOOD SIGN SUPPORTS 4 INCH X 4 INCH
8030	25 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8036	85 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED
8039	15 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8053	I EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8055	49 SF	INSTALL GROUND MOUNTED SIGN
8057	2 EA	VIDEO DETECTION CAMERA
8070	I EA	250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE
8074	I EA	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH
8081	3,800 LF	ELECTRICAL CABLE - 2 CONDUCTOR (ALUMINUM SHIELDED)
8082	365 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8084	950 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8086	125 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG) TC
8089	2 EA	PUSH BUTTON AND SIGN
8090	I EA	15 FOOT LIGHTING ARM ON SIGNAL STRUCTURE

EQUIPMENT LIST 'C'

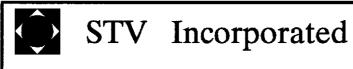
EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

DESCRIPTION

ALL REMOVED MATERIALS ARE TO BECOME THE PROPERTY OF THE CONTRACTOR.

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION

> MD 202 AND LOTTSFORD ROAD GENERAL INFORMATION



DRAWN BY: R. KIPP F.A.P. NO. TS-2548C AT3565185 CHECKED BY: B. BIDDLE S.H.A. NO. SHEET NO. PRINCE GEORGE'S engineers /architects /planners /scientists /construction managers | SCALE: COUNTY: T.I.M.S. NO. 7125 Ambassador Road Baltimore, MD 21244-2722 (410) 944-9112 DATE: AUGUST 2004 16020208.78 LOG MILE: GI 82